## **BURN SEVERITY -- COMPOSITE BURN INDEX (BI)**

PD - Abridged	Examiners:		Fire	Fire Name:		
Registration Code		Project Code		Plot Number		
Field Date mmddyyyy	/ /	Fire Date mmyyyy	/			
Plot Aspect		Plot % Slope		UTM Zone		
Plot Diameter Overstory		UTM E plot center		GPS Datum		
Plot Diameter Understory		UTM N plot center		GPS Error (m)		
Number of Plot Photos	Plot F	Photo IDs				

BI – Long Form	70 Bullieu	100 1661	(30 m) diamete	er from	center of plot =	Fu	el Photo Series =	T		
STRATA		BURN SEVERITY SCALE								
RATING FACTORS	No Effect Low			Moderate	High		FACTOR			
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	SCORES		
A. SUBSTRATES	-									
% Pre-Fire Cover: Litter:	= Duff =	=	Soil/Rock =	Pre-F	ire Depth (inches): Li	tter = Du	ff = Fuel Bed	=		
Litter/Light Fuel Consumed		I	50% litter		100% litter	>80% light fuel	98% Light Fuel			
Duff	Unchanged		Light char		50% loss deep char		Consumed			
Medium Fuel, 3-8 in.	Unchanged		20% consumed		40% consumed		>60% loss, deep ch			
Heavy Fuel, > 8 in.	Unchanged		10% loss		25% loss, deep char		>40% loss, deep ch			
Soil & Rock Cover/Color	Unchanged		10% change		40% change		>80% change			
B. HERBS, LOW SI		TREE		N 3 FE		<u> </u>	<u> </u>			
				11311	EI (I MEIEK).					
Pre-Fire Cover = % Foliage Altered (blk-brn)	Unchanged	% Enna	nced Growth =		80%	95%	100% + branch loss			
Frequency % Living	100%		90%		50%	< 20%	None			
Colonizers	Unchanged		Low		Moderate	High-Low	Low to None			
Spp. Comp Rel. Abund.	Unchanged		Little change		Moderate change	Tilgii-Low	High change			
		<u> </u>					Trigii change			
C. TALL SHRUBS A					ERS):					
Pre-Fire Cover =		% Enha	nced Growth =		<b>.</b>	П	T	n		
% Foliage Altered (blk-brn)	0%		20%		60-90%	> 95%	Signifent branch loss			
Frequency % Living	100%		90%		30%	< 15%	< 1%			
% Change in Cover	Unchanged		15%		70%	90%	100%			
Spp. Comp Rel. Abund.	Unchanged		Little change		Moderate change		High Change			
D. INTERMEDIATI	E TREES (S	UBCA	NOPY, POLE-	-SIZED	TREES)					
Pre-Fire % Cover =	Pre-Fi	re Num	ber Living =		Pre-Fire Numbe	r Dead =				
% Green (Unaltered)	100%		80%		40%	< 10%	None			
% Black (Torch)	None		5-20%		60%	> 85%	100% + branch loss			
% Brown (Scorch/Girdle)	None		5-20%		40-80%	< 40 or > 80%	None due to torch			
% Canopy Mortality	None		15%		60%	80%	%100			
Char Height	None		1.5 m		2.8 m		> 5 m			
Post Fire: %Girdled =	0	%Felled	= %	Tree M	ortality =					
E. BIG TREES (UPI	PER CANOI	PY, DO	MINANT, CO	DOM	NANT TREES)					
Pre-Fire % Cover =	Pre-Fi	re Num	ber Living =		Pre-Fire Numbe	r Dead =				
% Green (Unaltered)	100%		95%		50%	< 10%	None			
% Black (Torch)	None		5-10%		50%	> 80%	100% + branch loss			
% Brown (Scorch/Girdle)	None		5-10%		30-70%	< 30 or > 70%	None due to torch			
% Canopy Mortality	None		10%		50%	70%	%100			
Char Height	None		1.8 m		4 m		> 7 m			
Post Fire: %Girdled =	Q	%Felled	= %	Tree M	ortality =					
Community Notes/Co	mments:		CBI =	Sum of	f Scores / N Rated	: Sum of Sco	ores N Rated	CBI		
<i>y</i>					derstory (A+B+C					
					Overstory (D+E	/				
				Takal D	Plot (A+B+C+D+E	/		1		
				10131 P	101 (4+6+(+1)+r	4)				

% Estimators:  $\frac{20 \text{ m Plot:}}{30 \text{ m Plot:}}$  314 m² 1% = 1x3 m 5% = 3x5 m 10% = 5x6 m After, Key and Benson 1999, USGS NRMSC, Glacier Field Station. 5% = 5x7 m 10% = 7x10 m Version 3.0 8 27, 2004